

## 8. REFERENCES

- [Awuah-Baffour 1997] Robert Awuah-Baffour, Wayne Sarasua, Karen Dixon, William Bachman, and Randall Guensler; “GPS with an Attitude”; Transportation Research Record; Transportation Research Board, Washington DC, 1998.
- [Bachman 1998] Bachman, William, Jessica Granell, Randall Guensler, and John Leonard; “Research Needs In Determining Spatially-Resolved Sub-fleet Characteristics”; Transportation Research Record; Transportation Research Board, Washington, DC, 1998.
- [Bachman 1996] Bachman, William, Wayne A. Sarasua, and Randall Guensler; “A GIS Framework for Mobile Source Emissions Modeling”; Transportation Research Record No. 1551. National Academy Press; January, 1996.
- [Barth 1996] Barth, Matthew, Feng An, Joseph Norbeck, and Marc Ross; “Modal Emissions Modeling: A Physical Approach;” Transportation Research Record; National Academy Press; January, 1996.
- [Benson 1989] Benson, Paul; “CALINE4 - A Dispersion Model for Predicting Pollutant Concentrations Near Roadways” (FHWA/CA/TL-84/15); State of California Department of Transportation, Division of New Technology and Research; Sacramento, CA; November, 1984, Revised June, 1989.
- [Bruckman 1991] Bruckman, Leonard, Ronald J. Dickson, and James G. Wilkinson; “The Use of GIS Software in the Development of Emissions Inventories and Emissions Modeling;” Proceedings of the Annual Meeting and Exhibition of the Air and Waste Management Association; June, 1992.
- [Calspan 1973] Calspan Corporation; “Automobile Exhaust Emission Surveillance”; Environmental Protection Agency #APTD-1544; NTIS PB220-775; Office of Mobile Source Air Pollution Control; Ann Arbor, MI; May, 1973.
- [CARB 1990] California Air Resources Board; Emission Inventory 1987; Technical Support Division; Sacramento, CA; March, 1990.
- [Carlock 1993] Carlock, Mark; “An Analysis of High Emitting Vehicles in the On-Road Motor Vehicle Fleet”; The Emission Inventory: Perception and Reality, Proceedings of an International Specialty Conference; Air and Waste Management Association; Pittsburgh, PA; October, 1993; pp 207-228.

- [Grant 1996] Grant, Chris, Randall Guensler, and Michael D. Meyer; “Variability of Heavy-Duty Vehicle Operating Mode Frequencies for Prediction of Mobile Emissions”; Proceedings of the 89<sup>th</sup> Annual Meeting; Air and Waste Management Association; Pittsburgh, PA; June, 1996.
- [Groblicki 1990] Groblicki, Peter J.; Presentation at the California Air Resources Board Public Meeting on the Emission Inventory Process; General Motors Research Laboratories; Warren, MI; November 5, 1990.
- [Guensler 1993a] Guensler, Randall; “Data Needs for Evolving Motor Vehicle Emission Modeling Approaches”; Transportation Planning and Air Quality II; Paul Benson, Ed.; American Society of Civil Engineers; New York, NY; 1993.
- [Guensler 1993b] Guensler, Randall; “Vehicle Emission Rates and Average Vehicle Operating Speeds”; Dissertation; submitted in partial satisfaction of the requirements for the degree of Doctor of Philosophy in Civil/Transportation Engineering; Advisor: Daniel Sperling; Department of Civil and Environmental Engineering, University of California, Davis; Davis, CA; December, 1993.
- [Guensler 1994] Guensler, Randall; “Vehicle Emission Rates and Average Vehicle Operating Speeds”; Institute of Transportation Studies, University of California, Davis, CA; 1994.
- [Hallmark 1996] Hallmark, Shauna and Wende O’Neill; “Integrating GIS-T and Air Quality Models for Microscale Analysis”; Transportation Research Record No. 1551; National Academy Press; 1996.
- [Harvey 1991] Harvey, G. and E. Deakin; “Toward Improved Regional Transportation Modeling Practice”; National Association of Regional Councils; Washington DC; December, 1991.
- [Heywood 1988] Heywood, John B.; Internal Combustion Engine Fundamentals; McGraw-Hill Publishing Company; New York, NY; 1988.
- [Jacobs 1990] Jacobs, Paul, Donald J. Churnich, and Mark A. Burnitzki; “Motor Vehicle Emissions and their Controls”; California Air Resources Board; Sacramento, CA; July, 1990.
- [Johnson 1993] Johnson, Elmer; “Avoiding the Collision of Cities and Cars, Urban Transportation Policy for the Twenty-first Century”; Report by The Academy of Arts and Sciences and The Aspen Institute; Chicago, IL; September, 1993.
- [Joy 1992] Joy, Richard W.; “Drive Thru Windows - A Case Study”; Proceedings of the Transportation Modeling Tips and Trip-Ups Conference; Air and Waste Management Association; Pittsburgh, PA; March 11-12, 1992.

- [Kunselman 1974] Kunselman, P., H.T McAdams, C.J. Domke, and M.E. Williams; “Automobile Exhaust Emission Modal Analysis Model”; Calspan Corporation; Buffalo, NY; Environmental Protection Agency (EPA-460/3-74-005); Office of Mobile Source Air Pollution Control; Ann Arbor, MI; January, 1974.
- [Meyer 1997] Meyer, Michael D.; “A Toolbox for Alleviating Traffic Congestion and Enhancing Mobility”; Institute of Transportation Engineers for the Federal Highway Administration; Washington DC; July, 1997.
- [Miller 1995] Miller, Terry L., Arun Chatterjee, and Cheng Ching; “Travel Related Inputs to Air Quality Models: An Analysis of Emissions Model Sensitivity and the Accuracy of Estimation Procedures”; Transportation Congress; Volume 1, pg 1149; 1995.
- [NCHRP 1993] NCHRP Report 359; “Adaptation of Geographic Information Systems for Transportation”; Transportation Research Board; National Academy Press; Washington, DC; 1993.
- [NRC 1991] National Research Council, Committee on Tropospheric Ozone Formation and Measurement; Rethinking the Ozone Problem in Urban and Regional Air Pollution; National Academy Press; Washington DC; 1991.
- [Orthofer 1995] Orthofer Rudolph and Wolfgang Loibl; “GIS-Aided Spatial Disaggregation of Emission Inventories”; The Emission Inventory: Programs and Progress; Presentation at the Air and Waste Management Specialty Conference; RTP, NC; October, 1995.
- [Outwater 1994] Outwater, Maren and William Loudon; “Travel Forecasting Guidelines for the Federal and California Clean Air Act”; Transportation Research Record; Transportation Research Board; January, 1994.
- [Pollack 1992] Pollack, Alison, Jeremy G. Heiken, and Robert A. Gorse; “Comparison of Remote Sensing Data and Vehicle Emission Models: The High Proportion of Emissions from High Emitting Vehicles”; Proceedings of the 85<sup>th</sup> Annual Meeting of the Air and Waste Management Association; Pittsburgh, PA; June, 1992.
- [Pozniak 1980] Pozniak, Donald J.; “The Exhaust Emission and Fuel Characteristics of an Engine During Warmup, A Vehicle Study (800396)”; Society of Automotive Engineers; Warrendale, PA; February, 1980.
- [Reingruber 1994] Reingruber, Michael and William Gregory; The Data Modeling Handbook; John Wiley & Sons, Inc.; New York, NY; 1994.

- [Sabate 1994] Sabate, Shelley and Archana Agrawal; "Proposed Methodology for Calculating and Redefining Cold and Hot Start Emissions"; California Air Resources Board; 1994.
- [Siwek 1997] Siwek, Sarah J.; Summary of Proceedings, EPA-FHWA Modeling Workshop; Ann Arbor, MI; 1997.
- [SOS 1994] Southern Oxidants Study; "The State of the Southern Oxidants Study: Policy-Relevant Findings in Ozone Pollution Research, 1988-1994"; W.L. Chameides and E.B. Cowling, eds.; North Carolina State University; Raleigh, NC; 1994.
- [Souleyrette 1991] Souleyrette, Reginald, Shashi Sathisan, David James, and Soon-tin Lim; "GIS for Transportation and Air Quality Analysis"; Proceedings of the ASCE Urban Transportation Division National Specialty Conference on Transportation Planning and Air Quality; Santa Barbara, CA; July, 1991.
- [Stopher 1993] Stopher, Peter; "Deficiencies of Travel-Forecasting Methods Relative to Mobile Emissions"; Journal of Transportation Engineering, ASCE; Vol. 119, No. 5; September/October, 1993.
- [Tomeh 1996] Tomeh, Osama; "Spatial and Temporal Characterization of the Vehicle Fleet as a Function of Local and Regional Registration Mix: Methodological Development"; Dissertation, School of Civil and Environmental Engineering, Georgia Institute of Technology; Atlanta, GA; May, 1996.
- [USEPA 1995] US Environmental Protection Agency; "National Air Pollutant Emission Trends, 1900-1994"; (EPA-454/R-95-011; NTIS PB 96-135678); Office of Air Quality Planning and Standards; Research Triangle Park, NC; October, 1995.
- [USEPA 1997] US Environmental Protection Agency; Congressional Subcommittee Testimony by Carol Browner; CSPAN; Washington, DC; 1997.
- [Venigalla 1995a] Venigalla, Mohan, Terry Miller, and Arun Chatterjee; "Alternative Operating Mode Fractions to Federal Test Procedure Mode Mix for Mobile Source Emissions Modeling"; Transportation Research Record No. 1472. p. 35-44; National Academy Press; Washington, DC; 1995.
- [Venigalla 1995b] Venigalla, Mohan, Terry Miller, and Arun Chatterjee; "Start Modes of Trips for Mobile Source Emissions Modeling"; Transportation Research Record No. 1472. p. 26-34; National Academy Press; Washington, DC; 1995.
- [Washington 1994] Washington, Simon; "Estimation of a Vehicular Carbon Monoxide Modal Emission Model and Assessment of an Intelligent Transportation

Technology”; Dissertation; Department of Civil Engineering, University of California, Davis; Davis, CA; 1994.

[Washington 1995] Washington, Simon; “Modal Activity Correction Factors for Implementing Emission Rate Estimates”; Transportation Research Record; Transportation Research Board; January, 1995.

[Washington 1996] Washington, Simon; “Considerations for the Development of New Mobile Source Emission Models”; Proceedings of the 76<sup>th</sup> Annual Transportation Research Board; Washington DC; January, 1996.

[Wolf 1998] Wolf, Jean, Simon Washington, Randall Guensler, and William Bachman; “High Emitting Vehicle Characteristics Using Regression Tree Analysis”; Transportation Research Record; Transportation Research Board, Washington DC; 1998.

[Worboys 1995] Worboys, Michael F.; GIS: A Computing Perspective; Taylor and Francis; London, UK; 1995.